EQUINOX

www.prolight.co.uk

gigaBAR *System*

ORDER CODE: EQLED65

USER MANUAL

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

CAUTION!

Keep this equipment away from rain, moisture and liquids.

SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual

CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 100V/240V.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

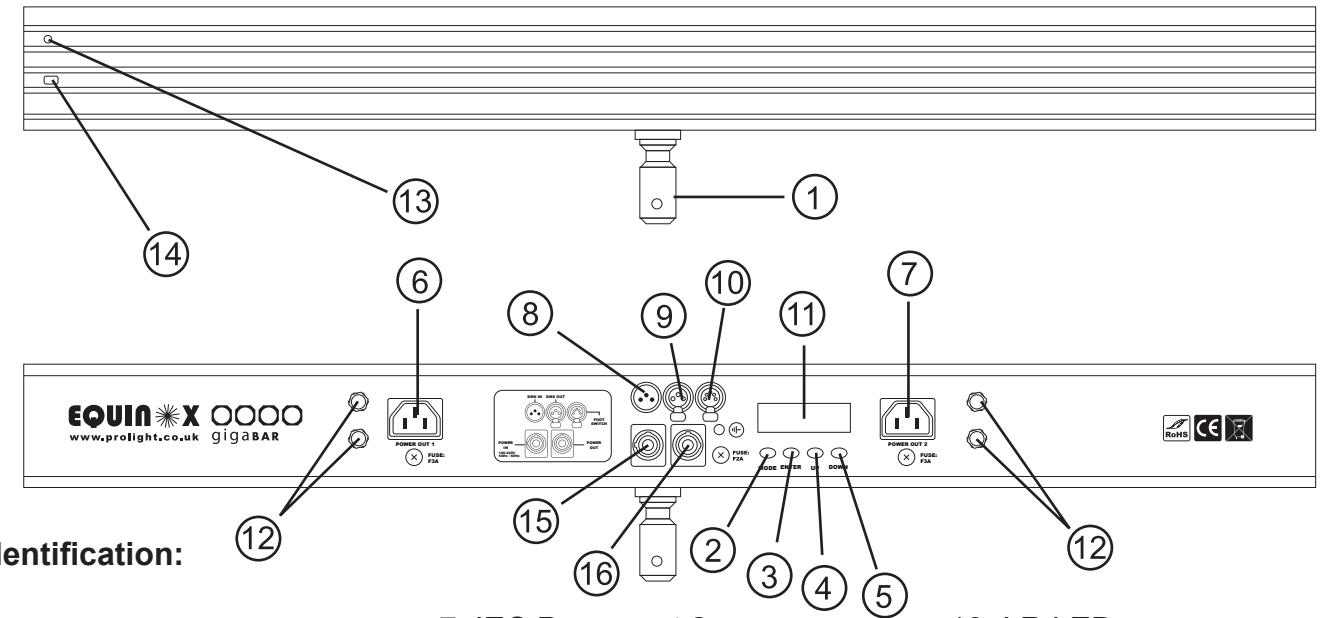
Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

You should find inside the carton the following items**:**
1, Equinox Giga Bar and bag 2, Power cable 3, User manual 4, Stand and bag
5, I.R remote 6, GB-1 foot controller 7, 4 pcs 25 degree lens kit

Please Note: The Giga Bar is supplied with the 25 degree lenses fitted at the factory, to change to 90 degree simply remove the thumb screws and take off the 25 degree lenses.

Technical Specifications:
4 x 30W Tri-colour RGB COB LEDs
Beam angle: 25/90 degrees
0-100% dimming and variable strobe (via DMX)
DMX channels: 3, 4, 5, 6, 7, 8, 12 and 17 selectable
Operating modes: 1: Sound activated, 2: Built-in programmes, 3: Auto Run, 4: DMX, 5: Slave
Infra-red operation (remote included)
14 built-in programmes
4 push button menu with LCD digital display
3-pin XLR In/Out sockets for DMX
5-pin socket for foot controller (GB-1)
Powercon in/out sockets
2 x IEC power out sockets (switchable via IR remote)
Power consumption: 135W
Power supply: 100V-240V AC~60Hz-50Hz
Dimensions: 1000 x 82 x 320mm
Weight: 7.6kg
Fuse: F2A 250V (3A 125V)

Overview



Identification:

1, 28mm spigot
2, Mode button
3, Enter button
4, Up button
5, Down button
6, IEC Power out 1
7, IEC Power out 2
8, DMX in
9, DMX out
10, 5-pin footswitch socket
11, LCD display
12, Output to lights
13, I.R LED
14, I.R sensor
15, Powercon in
16, Powercon out

Setup:

1, Setting dimmer curves
To set the dimmer curves, press the **"MODE"** button to show **"DIM CURVE"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to select LED or halogen.

2, Setting static colour for each LED panel
To set the static colour for each LED panel, press the **"MODE"** button to show **"DIMMER"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to select the LED panel from 01-04. Now press the **"ENTER"** button to set the brightness of the selected LED panel. Using the **"UP"** and **"DOWN"** buttons set the LED panel to the desired brightness (R: 0-99, G: 0-99, B: 0-99).

3, Setting master dimmer
To set the master dimmer, press the **"MODE"** button to show **"MASTER DIMMER"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the master dimmer from 0-99. This will effect all the modes except DMX and I.R remote.

4, Setting flow invert
To set the flow invert, press the **"MODE"** button to show **"FLOW INVERT"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the flow invert to on or off.

5, Setting I.R remote
To set the I.R remote, press the **"MODE"** button to show **"IR ACTIVE"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the I.R remote to on or off.

Operation modes:

1, Sound active mode
To select the sound active mode, press the **"MODE"** button to show **"SOUND MODE"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to adjust the sound sensitivity level (SENS00-31) and press the **"ENTER"** button again to adjust the frequency level (FQN01-99). Finally press the **"ENTER"** button to confirm your setting.

2, Built-in programmes mode
To access the built-in programme mode, press the **"MODE"** button to show **"01.STATIC"** in the LCD display window. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose one of the 14 built-in programmes (01-14) (see table overleaf).
To choose one of the seven colours in the **"STATIC"** mode, press the set **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose one of the following 15 colours.

To adjust the speed level in the remaining 13 built-in programmes, press the "**ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the desired speed level (00-99).
To adjust the flash speed press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the desired flash speed level (00-99). Finally press the **"ENTER"** button to confirm your setting.

3, Auto Run mode
To select the Auto run mode, press the **"MODE"** button to show **"AUTO RUN"** in the LCD display window. Now press the **"ENTER"** button to adjust the frequency level (FQN01-99). Finally press the **"ENTER"** button to confirm your setting. The unit will now run all 15 built-in programmes one after another.

4, DMX mode
To select the DMX mode, press the **"MODE"** button to show **"DMX MODE"** in the LCD display window. Press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set a DMX address from 001-512. Now press the **"ENTER"** button again and use the **"UP"** and **"DOWN"** buttons to choose one of the 8 DMX channel settings (3, 4, 5, 6, 7, 8, 12, or 17) Finally press the **"ENTER"** button to confirm your setting (see DMX chart). The starting address for this fixture is 001.

DMX Charts

3 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)

4 channel mode:

CH1		CH2		CH3		CH4	
000-036	R	000-036	R	000-036	R	000-036	R
037-073	G	037-073	G	037-073	G	037-073	G
074-110	B	074-110	B	074-110	B	074-110	B
111-147	RG	111-147	RG	111-147	RG	111-147	RG
148-184	RB	148-184	RB	148-184	RB	148-184	RB
185-221	GB	185-221	GB	185-221	GB	185-221	GB
222-255	RGB	222-255	RGB	222-255	RGB	222-255	RGB

5 channel mode:

CH1	R	0-255	Dimming 0-100%
CH2	G	0-255	Dimming 0-100%
CH3	B	0-255	Dimming 0-100%
CH4	0-127: Light 1 OFF (add light to aux power out 1 on top of the bar) 128-255: Light 1 ON (add light to aux power out 1 on top of the bar)		
CH5	0-127: Light 2 OFF (add light to aux power out 2 on top of the bar) 128-255: Light 2 ON (add light to aux power out 2 on top of the bar)		

6 channel mode:

CH1	R1, R2	0-255	Dimming 0-100%
CH2	G1, G2	0-255	Dimming 0-100%
CH3	B1, B2	0-255	Dimming 0-100%
CH4	R3, R4	0-255	Dimming 0-100%
CH5	G3, G4	0-255	Dimming 0-100%
CH6	B3, B4	0-255	Dimming 0-100%

7 channel mode:

CH1	R	0-255	Dimming 0-100%
CH2	G	0-255	Dimming 0-100%
CH3	B	0-255	Dimming 0-100%
CH4	DIMMER	0-255	Dimming 0-100%
CH5		0	No function
		1-5	Sound sensitivity from low to high
		6-10	No function
		11-255	Strobe from slow to fast
CH6	0-127: Light 1 OFF (add light to aux power out 1 on top of the bar) 128-255: Light 1 ON (add light to aux power out 1 on top of the bar)		
CH7	0-127: Light 1 OFF (add light to aux power out 1 on top of the bar) 128-255: Light 1 ON (add light to aux power out 1 on top of the bar)		

8 channel mode:

<table>
<tr><th>CH1</th><th>CH2</th><th>CH3</th><th>CH4</th><th>CH5</th><th>CH6</th><th>CH7</th><th>CH8</th></tr>
<tr><td>0-15</td><td rowspan="16">Master Dimmer (0-255)</td><td rowspan="24">Flash (0-255) from slow to fast</td><td>R (0-255)</td><td>G (0-255)</td><td>B (0-255)</td><td rowspan="24">0-127: Light 1 OFF (add light to aux power out 1 on top of the bar)

128-255: Light 1 ON (add light to aux power out 1 on top of the bar)</td><td rowspan="24">0-127: Light 2 OFF (add light to aux power out 2 on top of the bar)

128-255: Light 2 ON (add light to aux power out 2 on top of the bar</td></tr>
<tr><td>16-23 R</td><td rowspan="23"></td><td rowspan="23"></td><td rowspan="23"></td></tr>
<tr><td>24-31 G</td></tr>
<tr><td>32-39 B</td></tr>
<tr><td>40-47 RG</td></tr>
<tr><td>48-55 GB</td></tr>
<tr><td>56-63 RB</td></tr>
<tr><td>64-71 RGB</td></tr>
<tr><td>72-79 Colour1</td></tr>
<tr><td>80-87 Colour2</td></tr>
<tr><td>88-95 Colour3</td></tr>
<tr><td>96-103 Colour4</td></tr>
<tr><td>104-111 Colour5</td></tr>
<tr><td>112-119 Colour6</td></tr>
<tr><td>120-127 Colour7</td></tr>
<tr><td>128-135 Colour8</td></tr>
<tr><td>136-143 Dream</td><td rowspan="8">Speed (0-255) from slow to fast</td></tr>
<tr><td>144-151 Meteor</td></tr>
<tr><td>152-159 Fade</td></tr>
<tr><td>160-167 Change</td></tr>
<tr><td>168-175 Flow1</td></tr>
</table>

176-183 Flow2							
184-191 Flow3							
192-199 Flow4							
200-207 Flow5							
208-215 Flow6							
216-223 Flow7							
224-231 Flow8			0-255 Select 8 colours	0-255 Select 8 colours			
232-239 Flow9							
240-255 Sound Active	Sensitivity (0-255)						

12 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
R1	G1	B1	R2	G2	B2	R3	G3	B3	R4	G4	B4

17 channel mode:

<table>
<tr><th>CH1</th><th>CH2</th><th>CH3</th><th>CH4</th><th>CH5</th><th>CH6</th><th>CH15</th><th>CH16</th><th>CH17</th></tr>
<tr><td>0-15</td><td rowspan="21">Master Dimmer (0-255)</td><td rowspan="29">Flash (0-255) from slow to fast</td><td>R1 (0-255)</td><td>G1 (0-255)</td><td>B1 (0-255)</td><td>B4 (0-255)</td><td rowspan="29">0-127: Light 1 OFF (add light to aux power out 1 on top of the bar)

128-255: Light 1 ON (add light to aux power out 1 on top of the bar)</td><td rowspan="29">0-127: Light 2 OFF (add light to aux power out 2 on top of the bar)

128-255: Light 2 ON (add light to aux power out 2 on top of the bar</td></tr>
<tr><td>16-23 R</td><td rowspan="28"></td><td rowspan="28"></td><td rowspan="28" colspan="2"></td><td rowspan="28"></td></tr>
<tr><td>24-31 G</td></tr>
<tr><td>32-39 B</td></tr>
<tr><td>40-47 RG</td></tr>
<tr><td>48-55 GB</td></tr>
<tr><td>56-63 RB</td></tr>
<tr><td>64-71 RGB</td></tr>
<tr><td>72-79 Colour1</td></tr>
<tr><td>80-87 Colour2</td></tr>
<tr><td>88-95 Colour3</td></tr>
<tr><td>96-103 Colour4</td></tr>
<tr><td>104-111 Colour5</td></tr>
<tr><td>112-119 Colour6</td></tr>
<tr><td>120-127 Colour7</td></tr>
<tr><td>128-135 Colour8</td></tr>
<tr><td>136-143 Dream</td><td rowspan="8">Speed (0-255) from slow to fast</td></tr>
<tr><td>144-151 Meteor</td></tr>
<tr><td>152-159 Fade</td></tr>
<tr><td>160-167 Change</td></tr>
<tr><td>168-175 Flow1</td></tr>
</table>

176-183 Flow2							
184-191 Flow3							
192-199 Flow4							
200-207 Flow5							
208-215 Flow6							
216-223 Flow7							
224-231 Flow8			0-255 Select 8 colours	0-255 Select 8 colours			
232-239 Flow9							
240-255 Sound Active	Sensitivity (0-255)						

5, Slave mode
To select Slave mode, first link the units together via 3-Pin XLR cable(s), press the **"MODE"** button to show **"SLAVE MODE"** on all of the slave units. Now the slave units will follow in conjunction with the master unit.

6, IEC socket power on/off mode
To turn the IEC Power Out 1 Socket on or off, press the **"MODE"** button to show **"LIGHT 1"** in the LCD display window. Now press the **"ENTER"** button to turn the IEC Power Out 1 Socket on or off. To turn the IEC Power Out 2 Socket on or off, press the **"MODE"** button to show **"LIGHT 2"** in the LCD display window. Now press the **"ENTER"** button to turn the IEC Power Out 2 Socket on or off.

NOTE: If the Giga bar is used on continental 110V mains supply the voltage output will also be 110V.

NOTE: If the Giga bar is being used in conjunction with the GB-1 foot controller any number of Giga bars can be controlled via the foot controller by setting all bar systems into "SLAVE" mode.

NOTE: The frequency level (FQN01-99) adjusts how many times the programme repeats before moving to the next programme.

Built-in programme chart

Static Colour CL:RGB Flash00-99	Red, Greeen, Blue, Yellow, Cyan, Purple, White Flash speed adjustable
Dream Speed00-99 Flash00-99	7 colour dreaming Speed & Flash adjustable
Meteor Speed00-99 Flash00-99	7 colour flow Speed & Flash adjustable
Fade Speed00-99 Flash00-99	7 colour fade Speed & Flash adjustable
Change Speed00-99 Flash00-99	7 colour change Speed & Flash adjustable
Flow 1 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 2 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 3 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 4 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 5 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 6 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 7 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 8 Speed00-99 Flash00-99 C1: RGB C2: RGB	7 colour chase Speed & Flash adjustable
Flow 9 Speed00-99 Flash00-99 C1: RGB C2: RGB	7 colour chase Speed & Flash adjustable

I.R. remote function

To control the Giga Bar via the I.R remote please set the bar into **“IR ACTIVE”** using the menu on the Giga Bar.

Functions:

“BL” button: Use this button to turn the unit on and off.
“SP” button: Use this button to increase or decrease the speed of the programme (Press 1 for slow, 2 for medium, 3 for fast and 4 for off)
“☼” button: Use this button to increase or decrease the brightness of the LEDs (Press 1 for 50%, 2 for 75%, 3 for 100% and 4 for off)
“FL” button: Use this button to add strobe to any of the shows. (Press 1 for slow, 2 for medium, 3 for fast and 4 for off)
“RGBW” buttons: Use these buttons to increase or decrease the brightness of each individual colour. **Note:** “W” will adjust R,G and B LED’s. (Press 1 for 50%, 2 for 75%, 3 for 100% and 4 for off)
“PR” buttons: Use these buttons to select one the built-in colour change programmes.
“D” buttons: Use these buttons to select one the built-in colour fade programmes.
“SA” buttons: Use the buttons to select one of the sound active programmes.
“ON1/OFF1” button: Use this button to power up and power down the Power out 1 socket.
“ON2/OFF2” button: Use this button to power up and power down the Power out 2 socket.

Note: When multiple fixtures are being linked, the slave units must be set into slave mode via the LCD display on the Giga Bar(s).

DMX Control Mode
Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

Setting the DMX address
The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX-512:
• DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX Linking:
• DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA Cable (DMX cable) requirements (for DMX operation):
• The Equinox Mighty Bar can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

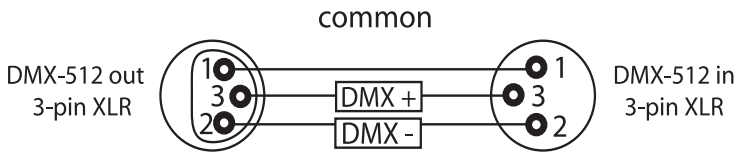
Figure 1

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.
Please quote:
CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



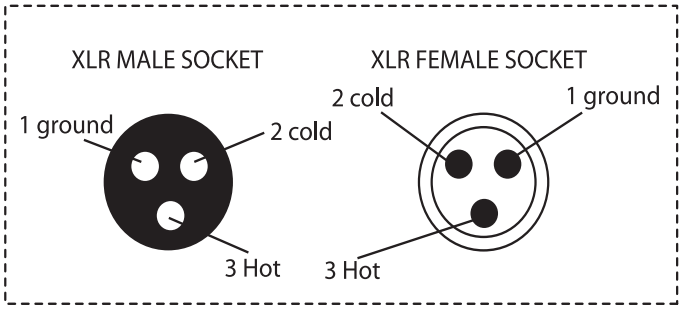


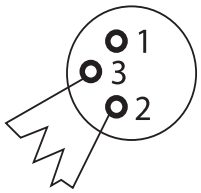
FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

FIGURE 2

Special Note: Line termination:

• When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

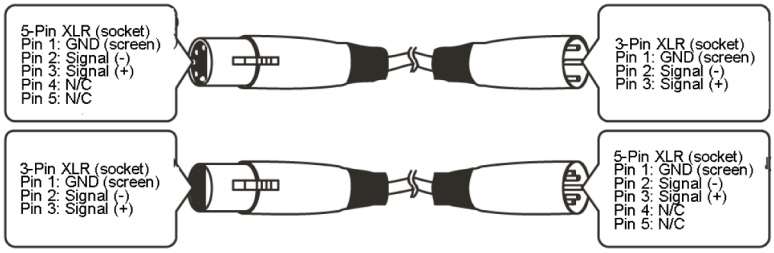


Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

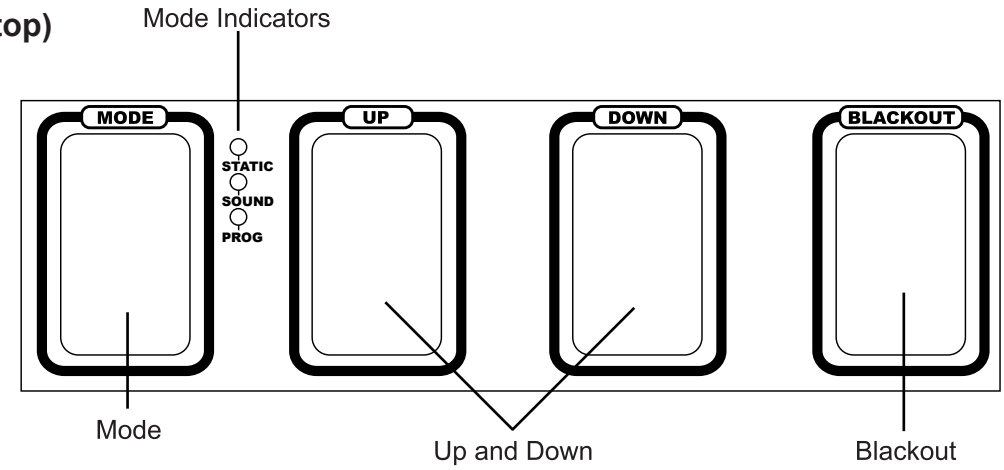
Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.

5-Pin XLR DMX Connectors:

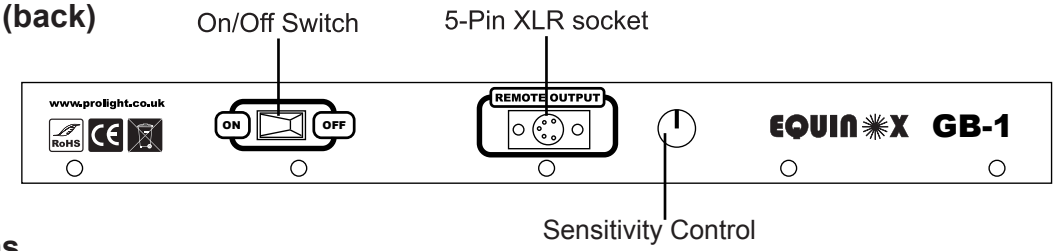
• Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The Chart below details the correct cable conversion.



Overview (top)



Overview (back)



Operations

This foot controller is made specially for the Giga Bar system. Many of the built-in programmes can be accessed via the 4 foot switches. To control the Giga Bar using the foot switch controller, you must first set the bar systems into **"SLAVE"** mode.

Static colour selection mode:

To activate this mode, press the **"MODE"** foot switch to **"STATIC"**, the red LED indicator is lit, now use the **"UP"** and **"DOWN"** foot switches to select the desired colour. To blackout the unit, press the **"BLACKOUT"** foot switch and press it again to return it to the previous setting.

Sound active mode:

To activate this mode, press the **"MODE"** pedal until the green **"SOUND"** LED illuminates, you can now adjust the sensitivity control on the back of the GB-1 to the correct level. In this mode you can use the **"BLACKOUT"** pedal at any time. To come out of **"BLACKOUT"** mode simply press the **"BLACKOUT"** pedal once more and you will return to **"SOUND"** mode.

Built-in programmes:

To activate this mode, press the **"MODE"** foot switch to **"PROG"**, the yellow LED indicator is lit, now use the **"UP"** and **"DOWN"** foot switches to select the desired built-in programme. To blackout the unit, press the **"BLACKOUT"** foot switch and press it again to return it to the previous setting.

Full on mode:

To set the Giga Bar into Full On mode (white) press and hold for three seconds the **"MODE"** or **"BLACKOUT"** pedal, to exit Full On mode press the **"MODE"** pedal to select static, sound or prog mode.

IEC Power output sockets:

To turn on power output socket **"1"** press and hold for three seconds the **"UP"** pedal, to turn off socket **"1"** press and hold the **"UP"** pedal again for three seconds, power output socket **"2"** works in the same way by using the **"DOWN"** pedal. Please note: The output sockets 1 and 2 will not function during **"BLACKOUT"**.

English

Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with seperate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please seperate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.